



**Glossary
(continued)**

DS4	Digital Signal Level 4, 4032 Channels, 274.176 mb/s
DSOA	Single Sub-rate Channel Occupying Entire DSO Channel
DSOB	DSO Channel Containing Multiple Multiplexed Sub-rates.
DSU	Digital Service Unit
DSX	Digital Signal Cross-connect
E800	Enhanced 800 Service
EAE0	Equal Access End Office
EAX	Electronic Automatic Exchange
EC	Exchange Carrier
ECSA	Exchange Carrier Standards Association
EO	End Office
ESS	Electronic Switching System
FCC	Federal Communications Commission
FISU	Fill-In Signal Unit
GTOC	General Telephone Operating Company
GT	Global Title
GTT	Global Title Translation
HLR	Home Location Register
IC	Interexchange Carrier
ISDN	Integrated Service Digital Network
ISDN-UP	Integrated Service Digital Network (ISUP) User Part
IS-41	Interim Standard 41
IXC	Interexchange Carrier
LAMA	Local Automatic Message Accounting
LAN	Local Area Network
LATA	Local Access and Transport Area
LEC	Local Exchange Carrier
LIDB	Line Information Data Base
LSSU	Link Status Signal Unit
MAP	Mobile Application Part
MSA	Metropolitan Service Area
MSC	Mobile Switching Center
MSCID	Mobile Switching Center Identification
MSU	Message Signal Unit
MTSO	Mobile Telephone Switching Office
MTP	Message Transfer Part
NPA	Numbering Plan Area
NSP	Network Service Part
NXX	Exchange Office Code
OCC	Other Common Carrier



**Glossary
(continued)**

OMAP	Operations, Maintenance, Administration and Provisioning
ONI	Operator Number Identification
OPC	Originating Point Code
OSO	Originating Screening Office
OSS	Operator Service System
PCN	Personal Communications Network
PCS	Personal Communications Services
POI	Point of Interface
POP	Point of Presence
POTS	Plain Old Telephone Service
RBOC	Regional Bell Operating Company
SCCP	Signaling Connection Control Part
SCP	Service Control Point
SEAS	Signaling Engineering and Administration System
SEP	Signaling End Point
SLM	Signaling Link Management
SMS	Service Management System
SNI	Signaling Network Interconnection
SP	Signaling Point
SPOI	Signaling Point of Interface
SS7	Signaling System 7
SSP	Service Switching Point
STM	Signaling Traffic Management
STP	Signal Transfer Point
TCAP	Transaction Capability Application Part
TLS	Traffic Load Simulator
TLDN	Temporary Local Directory Number
TSO	Terminating Screening Office
VLR	Visitor Location Register
VLR Timer	Visitor Location Register Timer



5.2 Definitions

ADJACENT SIGNALING POINT

Two signaling points that are directly interconnected by (a) signaling link(s).

ALTERNATE BILLING SERVICE (ABS)

Services such as Collect and Third Number Billed provided by Equal Access Operator Services, along with Calling Card Validation, ISC Denial Screening, Customer Denial Screening, and 0- Assistance. Data for ABS resides in the LIDB portion of the SCP.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

The governing board responsible for updating CCITT standards for North American use. The ANSI defines the requirements for signaling data links belonging to SS7 common channel networks in the U.S. in order to meet CCITT requirements of an internationally standardized, general purpose common channel signaling system.

CCITT

The International Telegraph and Telephone Consultative Committee is the international standards governing body established to recommend worldwide telecommunications standards including Common Channel Signaling (CCS) functions and their use for international applications.

CIRCUIT IDENTIFICATION CODE (CIC)

Information identifying a circuit between a pair of exchanges, for which signaling is being performed.

CLUSTER

A set of signaling points which are identifiable as a group within the signaling point code address space.

COMBINED LINK SET (CLS)

A collection of signaling link sets from a signaling point sharing a common routing priority towards a specific destination.

COMMON CHANNEL SIGNALING (CCS)

A signaling method in which a single channel conveys, by means of labeled messages, signaling information relating to a multiplicity of circuits or calls and other information, such as that used for network management.

COMPONENT

The portion of the TCAP message that identifies the Component types, provides correlation between Components, specifies operations to be performed, and contains the parameters relevant to that operation.



Definitions
(continued)

CUSTOM LOCAL AREA SIGNALING SERVICES (CLASS)

A collection of services offered to local area residential and business customers on a pre-subscribed basis. These features support both local and interoffice applications where SS7 is deployed. CLASS features include Calling Number Delivery, Calling Number Blocking, Customer Originated Trace, Automatic Recall, Automatic Callback, Selective Call Forwarding, Selective Call Waiting, Selective Call Rejection, Selective Call Acceptance, and VIP alert.

DESTINATION POINT (DP)

The node in the SS7 Network to which an SS7 message is transmitted and routed.

DESTINATION POINT CODE (DPC)

A subfield in the routing label of the message which identifies the signaling point in the SS7 signaling network to which the message is destined. The destination point code is used in the message routing function of the signaling link.

DIGITAL SIGNALING DATA LINK

The link that provides an interface to signaling terminals and is made up of digital transmission channels and digital switches or their terminating equipment.

END-TO-END SIGNALING

The capability to transfer signaling information directly between end points of a built-up circuit switched connection or between signaling points that are not interconnected by a circuit switched connection.

END POINTS

Signaling points (with user function) within the SS7 Network.

EXCHANGE CARRIER STANDARDS ASSOCIATION (ECSA)

A domestic group which is a major contributor and facilitator of post-divestiture telecommunications policy in the United States, and is a major voice in the international telecommunications area.

GLOBAL TITLE

An address such as customer dialed digits which does not explicitly contain information that would allow routing in the SS7 Network. Note: The SCCP translation function is required.



Definitions (continued)

GLOBAL TITLE TRANSLATION (GTT)

Identifies the address of a destination, processes the global title, and translates it into a destination point code (DPC) and SS7 subsystem number for routing purposes. Upon receipt of the global title, the destination node then uses its connection-control routing procedure to deliver the global title to the correct application.

HOME LOCATION REGISTER (HLR)

The master repository for subscribers records.

INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

A network service that utilizes the signaling function provided by SS7 to provide the services required to control switched connections of voice and data between customer line exchange terminations.

INTEGRATED SERVICES DIGITAL NETWORK-USER PART (ISDN-UP)

One of the different level 4 functional entities to utilize the message transport capability provided by the SS7 Message Transport Part (MTP). Implementation will provide the protocol structure, or rules for signaling message exchange, necessary to support Basic Service (BS) and User Facilities (UF) features of ISDN.

INTERIM STANDARD 41 (IS-41)

An industry standard that defines a protocol (language) to enable switches of various types to communicate with each other.

LINE INFORMATION DATA BASE (LIDB)

A data base residing in the SCP used to validate telephone calling cards, and provide other information about a customer's line.

MESSAGE GENERATION TRAFFIC SIMULATOR (MGTS)

A test set used to verify and simulate various components of the SS7 Network and SS7 protocol.

MESSAGE SIGNAL UNIT (MSU)

Signal units transmitted and received via the SS7 Network that carry user information. MSUs also contain service information identifying the user as well as the message priority.



**Definitions
(continued)**

MESSAGE TRANSFER PART (MTP)

The functional part of SS7 which transfers signaling messages as required by all the users, and which performs the necessary subsidiary functions such as error control and signaling security.

NETWORK ADDRESS

The signaling point code, containing for U.S. national networks, the network identification number, network cluster, and network cluster member fields

NETWORK CLUSTER

The field in the U.S. signaling point code structure that identifies groups of signaling points and individual STPs of a signaling network.

NETWORK CLUSTER MEMBER

The field in the U.S. signaling point code structure that identifies individual signaling points within a cluster.

NETWORK IDENTIFICATION

The field in the U.S. signaling point code structure that identifies the signaling network.

NETWORK SERVICE PART (NSP)

The combination of the Message Transfer Part (MTP) and the Signaling Connection Control Part (SCCP).

ORIGINATING POINT (OP)

The Signaling Point (SP) in the SS7 Network where the message is generated.

ORIGINATING POINT CODE (OPC)

Identifies the originating signaling point in the SS7 Network from which the message was generated.

POINT CODE

The identification numbering scheme for a SS7 network element. The numbering scheme is made up of the NETWORK, NETWORK CLUSTER, and NETWORK CLUSTER MEMBER fields.

QUERY RESPONSE SERVICE (QRS)

The SS7 Network configuration necessary to provide hub, transport, or gateway access between SS7 originators and LIDB services.



**Definitions
(continued)**

SERVICE CONTROL POINT (SCP)

The data base or multiple data bases which provide services such as E800 and LIDB, and can be accessed from multiple points.

SERVICE MANAGEMENT SYSTEM (SMS)

A system supporting the SCP node and certain applications such as Line Information Data Base (LIDB) and E800 that are in service at the SCP.

SERVICE SWITCHING POINT (SSP)

A digital end office or access tandem office which is connected to the SS7 Network.

SIGNAL TRANSFER POINT (STP)

A signaling point with the function of transferring signaling messages from one link to another and considered exclusively from the viewpoint of the transfer

SIGNAL UNIT (SU)

A group of bits forming a separately transferable entity used to convey information on a signaling link.

SIGNALING CONNECTION CONTROL PART (SCCP)

Provides additional functions to the MTP to cater to both connection-less as well as connection-oriented network services and to achieve an OSI compatible network service.

SIGNALING END POINT (SEP)

A signaling point with the ability to source or sink Network User Part user data and considered exclusively from the viewpoint of the source or sink.

SIGNALING LINK

A transmission means which consists of a signaling data link and its transfer control functions used for reliable transfer of a signaling message.

SIGNALING LINK CODE (SLC)

A field within certain signaling network management messages, which indicates the particular signaling link to which the message refers among those interconnecting the two involved signaling points.

SIGNALING LINK GROUP

A set of signaling links directly connecting two signaling points and having the same physical characteristics (bit rate, propagation delay, etc.).



**Definitions
(continued)**

SIGNALING LINK MANAGEMENT FUNCTION

These functions control and take actions required to preserve the integrity of locally connected signaling links, e.g., reconfiguration of signaling link sets. This is an automatic function of the SS7 protocol.

SIGNALING LINK SET

A set of signaling links directly connecting two continued signaling points.

SIGNALING MESSAGE

An assembly of signaling information pertaining to a call, management transaction, etc., that is transferred as an entity.

SIGNALING NETWORK

A network used for signaling by one or more users and consisting of signaling points and connecting signaling links.

SIGNALING POINT

A node in a signaling network that originates and receives signaling messages, or transfers messages from one signaling link to another.

SIGNALING SYSTEM 7 (SS7)

The form of Common Channel Signaling (CCS) developed to provide a general purpose, common channel signaling system suitable for both national and international network applications. The four major elements of the network, Signaling Points, Signaling Links, Signaling Transfer Points, and Service Control Points, provide a method of exchanging information between Stored-Program Controlled Switches and making data base inquiries.

SIGNALING TRAFFIC MANAGEMENT

The function which diverts signaling traffic from one signaling link or route to one or more different signaling links or routes.

STORED-PROGRAM CONTROL SWITCH

An electronic telephone switching system which has the capability of exchanging signaling information with other SPCs in the SS7 Network through SS7 Signaling Data Links.

TRANSACTION CAPABILITIES

Functions that control non-circuit related information transferred via a signaling network between two or more nodes.



**Definitions
(continued)**

TRANSACTION CAPABILITIES APPLICATION PART (TCAP)

The application layer of the Transaction Capabilities protocol.

VISTOR LOCATION REGISTER (VLR)

The repository for temporary roaming records in the visited system.



Sample GTE Seamless Roaming Markets

Company Name	Market Location	Point Code	CLLI Code	Switch Type	SID	BID	MSCID
Alltel Cellular	Gainesville, FL	234-054-001	GSVLFLAOCM1	ST2000	348		348-000
Alltel Cellular	Jackson, MS	234-062-001	JCSNMS600MD	ST2000	160		160-000
Alltel Cellular	Little Rock, AR	234-058-001	LTRKARLLCM1	ST2000	208		208-027
Alltel Cellular	Mathews, NC	234-050-001	MTHWNCMMCM1	ST2000	114		114-005
Ameritech	Bloomfield, MI	001-131-010	BTWOMBICMO	Autoplex 1000	10		010-003
Ameritech	Columbus, OH	001-131-013	CLMBOHUJCM0	Autoplex 1000	138		138-003
Ameritech	Cincinnati, OH	001-131-014	CNCNOHAM1MD	Autoplex 1000	14		014-001
Ameritech	Milwaukee, WI	001-131-015	NWBLWIAACMO	Autoplex 1000	44		044-004
Ameritech	Springfield, IL	001-131-020	SPFDLMT1MD	Autoplex 1000	532		532-005
Ameritech-Chcg 1	Chicago, IL	001-131-018	HCHLILMT3MD	Autoplex 1000	20		020-001
Ameritech-Chcg 2	Chicago, IL	001-131-019	HCHLILMT3MD	Autoplex 1000	20		020-002
Ameritech-Dtrt 1	Detroit, MI	001-131-011	DTRTMIAPCM1	Autoplex 1000	10		010-001
Ameritech-Dtrt 2	Detroit, MI	001-131-012	DTRTMIAPCM2	Autoplex 1000	10		010-002
Ameritech-Nrthbrk 1	Northbrook, IL	001-131-016	NBRKILBG1MD	Autoplex 1000	20		020-003
Ameritech-Nrthbrk 2	Northbrook, IL	001-131-017	NBRKILBGC00	Autoplex 1000	20		020-006
Bluegrass Cellular	Radcliff, KY	235-135-035	RDCLKYCT1MD	NTI DMS250-D	1280		1280-000
Century Cellunet	Grands Rapids, MI	235-172-001	GDRQMSACM1	NTI SNSE	244		244-000
Century Cellunet	Lansing(Williamston), MI	235-172-002	WMTNMIJRCM1	NTI SNSE	188		188-000
Century Cellunet	Monroe, LA	235-094-001	MONRLALACM1	NTI SNSE	440		440-000
Century Cellunet	Shreveport, LA	235-094-002	SHPTLACCCM1	NTI SNSE	220		220-000
Contel Cellular	Bakersfield, CA	235-015-002	BKFDCA5DW01	Autoplex 1000	228		228-000
Contel Cellular	El Paso, TX	235-091-020	ELPSTXBG1MD	Autoplex 1000	92		092-000
Contel Cellular	Fresno, CA	235-015-001	FRSNCA5EW01	Autoplex 1000	162		162-001
Contel Cellular	Mobile, AL	235-149-010	MOBLAL07AMD	Autoplex 1000	120		120-000
Contel Cellular	Newport News, VA	235-149-020	NRFLVA83CM1	Autoplex 1000	168		168-001
Contel Cellular	Richmond, VA	235-149-021	RCMDVA83CM1	Autoplex 1000	170		170-000
Contel Cellular	Rockford, IL	235-171-011	RCFRILAJ1MD	Autoplex 1000	506		506-000
GTE-TSI SCP1	Tampa, FL (GTEDS)	235-014-001	TAMPFLTSCP1	ST1000	N/A		N/A
GTE-TSI SCP2	Tampa, FL (Test)	235-014-002	TAMPFLTSCP2	ST1000	N/A		N/A
Mobilnet	Austin, TX	235-091-005	AUSTTXUDWTM	Autoplex 1000	164		164-003
Mobilnet	Cleveland, OH	235-171-001	WRHGOH1ACM1	Autoplex 1000	54		054-001
Mobilnet	Ft Myers, FL	235-149-002	FTMYFLXAUMD	Autoplex 1001	42		042-002
Mobilnet	Honolulu, HI	235-015-030	HNLLHIGSWT3	Autoplex 1000	60		060-000
Mobilnet	Indianapolis, IN	235-171-002	IPLSINXACM1	Autoplex 1000	80		080-001
Mobilnet	Pleasanton, CA	235-015-005	PLTNCAAYW02	Autoplex 1000	40		040-001
Mobilnet	Portland, OR	235-015-040	PTLDORTIWA1	Autoplex 1000	30		030-001
Mobilnet	Salinas, CA	235-015-008	SLNSCAGMCM1	Autoplex 1000	40		040-003
Mobilnet	Santa Clara, CA	235-015-006	SNTCCACSW01	Autoplex 1000	40		040-002
Mobilnet	Tampa, FL	235-149-001	TAMPFL11CM1	Autoplex 1000	42		042-001
Mobilnet-Braxton	Houston, TX	235-091-004	HSTZTX16WGM	Autoplex 1000	12		012-005
Mobilnet-Copperfld	Houston, TX	235-091-001	HSTXTXOMWTE	Autoplex 1000	12		012-002
Mobilnet-Gibson	Houston, TX	235-091-002	HSTNTXYFWTE	Autoplex 1000	12		012-001
Mobilnet-Westpark	Houston, TX	235-091-003	HSTZTX16WTE	Autoplex 1000	12		012-004
West Central Cell	San Angelo, TX	235-095-001	SANGTXXACM1	NTI SNSE	510		510-000

(1) -- Requires GTE INLink Market Opening Form

(2) -- Requires NACN Market Opening Form

** - DENOTES CUSTOMER CONNECTED VIA X 25 IS-41 Protocol Converter

*** - DENOTES CUSTOMER CONNECTED VIA DMX Protocol Converter

**** - DENOTES CUSTOMER CONNECTED VIA AT&T CSN



ITN

Seamless Roaming Markets

Company Name	Market Location	Point Code	CLLI Code	Switch Type	SID	BID	MSCID
ADIRONDACK CELL	MALONE NY	227-195-239	PLATNYT1AXA		01507	0000	01507-001
AIR TOUCH CELLULAR	LOS ANGELES CA	001-138-002		STP			
AIR TOUCH CELLULAR	TUSTIN CA	001-138-001		STP			
ALBANY TEL. CO.	ALBANY NY	227-194-255	ALBANYT1AXA		00063	0000	00063-001
ALCATEL	GERMANTOWN MD	238-111-001	GERMMDALCAL	GMH 2000	01024	BLANK	01024-001
ALLIGAN**	ALLIGAN (IPC) MI	238-060-001	MTNILIS41XX	NOVATEL			00000-000
ALLTEL CELLULAR*	GAINSVILLE FL	234-054-001	GSVLFLAOCM1		00348	BLANK	00348-000
ALLTEL CELLULAR*	LITTLE ROCK AR	234-058-001	LTRKARLLCM1		00208	BLANK	00208-027
ALLTEL CELLULAR*	MATHEWS NC	234-050-001	MTHWNCMMCM1		00114	BLANK	00114-005
AMC CELLULAR	INDIANA PA	227-187-243	INDAPAT1AXA		01623	0000	01623-001
AMERITECH STP*	BLOOMFIELD MI	001-131-000	BTWOMIBIW00		N/A	BLANK	00000-000
AMERITECH STP*	DETROIT MI	001-131-001	DTRTMIAWP30		N/A	BLANK	00000-000
AMERITECH*	BLOOMFIELD MI	001-131-010	BTWOMIBICMO		00010	BLANK	00010-003
AMERITECH*	CHICAGO 1 IL	001-131-018	HCHLILMT3MD		00020	BLANK	00020-001
AMERITECH*	CHICAGO 2 IL	001-131-019	HCHLILMT5MD		00020	BLANK	00020-002
AMERITECH*	CINCINNATI OH	001-131-014	CNCNOHAM1MD		00014	BLANK	00014-001
AMERITECH*	COLUMBUS OH	001-131-013	CLMBOHUJCMO		00138	BLANK	00138-003
AMERITECH*	DETROIT 1 MI	001-131-011	DTRTMIAPCM1		00010	BLANK	00010-001
AMERITECH*	DETROIT 2 MI	001-131-012	DTRTMIAPCM2		00010	BLANK	00010-002
AMERITECH*	MILWAUKEE WI	001-131-015	NWBLWIAACMO		00044	BLANK	00044-004
AMERITECH*	NORTHBROOK 2 IL	001-131-017	NBRKILBGCMO		00020	BLANK	00020-006
AMERITECH*	NORTHBROOK 1 IL	001-131-016	NBRKILBG1MD		00020	BLANK	00020-003
AMERITECH*	SPRINGFIELD IL	001-131-020	SPFDILMT1MD		00532	BLANK	00532-005
AVDATA SYSTEMS**	ATLANTA GA	238-060-001	MTNILIS41XX	N/A	N/A	N/A	00000-000
BACHTEL	FARGO ND	227-096-241	FARGNDT1NTA		00347	0000	00347-001
BAKERSFIELD CELL	BAKERSFIELD CA	227-198-243	BAKECAT1AXA		00183		00183-001
BAY AREA	MONTEREY CA	227-096-241	MONTCAT1AXA		00527	0000	
BAY AREA	SAN FRANCISCO CA	227-199-250	SCLACAH1AXA		00031	0000	
BELL ATL. MOB SYS.	DOVER DE	001-122-025	MPSHNJ57CM1	Autoplex 1000	00008	30078	00119-031
BELL ATL. MOB SYS.	ADELPHI (WASH DC)	001-122-023	ADLPMDMTCM1	Autoplex 1000	00018	BLANK	00018-003
BELL ATL. MOB SYS.	ALBUQUERQUE NM	001-122-030	PHNXAZ3701W	INA	00079	BLANK	00053-031
BELL ATL. MOB SYS.	ALLENTOWN PA	001-122-022	PHLAPAMP1CM1	Autoplex 1000	00008	30358	00008-005
BELL ATL. MOB SYS.	ALLENTOWN PA	001-122-029	WMTPPAAACM1	Autoplex 1000	00008	30358	
BELL ATL. MOB SYS.	ANSON CITY NC	001-122-031	CHRLNCSW01W	INA	01749	BLANK	00139-031
BELL ATL. MOB SYS.	ANSON CITY NC	001-122-031	CHRLNCSW01W	INA	01857	BLANK	00139-031
BELL ATL. MOB SYS.	ATLANTIC CITY NJ	001-122-025	MPSHNJ57CM1	Autoplex 1000	00250	BLANK	00250-006
BELL ATL. MOB SYS.	BUTLER PA	001-122-021	PITBPAMTCM1	Autoplex 1000	00032	30100	00032-001
BELL ATL. MOB SYS.	CABARRUS NC	001-122-031	CHRLNCSW01W	INA	01545	BLANK	00139-031
BELL ATL. MOB SYS.	CATONSVILLE MD	001-122-026	CTVLMDBACM1	Autoplex 1000	00018	30080	00018-004
BELL ATL. MOB SYS.	CHANTILLY VA	001-122-027	CHNTVAAVCM1	Autoplex 1000	00018	BLANK	00018-008
BELL ATL. MOB SYS.	CHARLOTTE NC	001-122-031	CHRLNCSW01W	INA	00139	BLANK	00139-031
BELL ATL. MOB SYS.	CHEROKEE SC	001-122-031	CHRLNCSW01W	INA	01641	BLANK	00139-031
BELL ATL. MOB SYS.	EL PASO TX	001-122-030	PHNXAZ3701W	INA	00097	BLANK	00053-031
BELL ATL. MOB SYS.	FAUQUIER VA	001-122-027	CHNTVAAVCM1	Autoplex 1000	00022	30088	00022-008
BELL ATL. MOB SYS.	FRANKLIN CITY MA	001-122-032	WALLCTNE01W	INA	01635	BLANK	00119-031
BELL ATL. MOB SYS.	FREDERICK MD	001-122-023	ADLPMDMTCM1	Autoplex 1000	00018	30016	00018-003
BELL ATL. MOB SYS.	GILA AZ	001-122-030	PHNXAZ3701W	INA	01031	BLANK	00053-031
BELL ATL. MOB SYS.	GREENE PA	001-122-021	PITBPAMTCM1	Autoplex 1000	00032	30104	00032-001
BELL ATL. MOB SYS.	HARTFORD CT	001-122-032	WALLCTNE01W	INA	00119	31019	00119-031
BELL ATL. MOB SYS.	HICKORY NC	001-122-031	CHRLNCSW01W	INA	00385	BLANK	00139-031



Sample
NACN
Seamless Roaming Markets

Company Name	Market Location	Point Code	CLLI Code	Switch Type	SID	BID	MSCID
AIR TOUCH CELLULAR	ATHENS GA	227-096-239	SEATWAPIPCA		00041		00041-009
AIR TOUCH CELLULAR	ATLANTA GA	227-096-239	SEATWAPIPCA		00041		00041-009
AIR TOUCH CELLULAR	MADISON GA	227-096-239	SEATWAPIPCA		01135	30321	00041-009
AIR TOUCH CELLULAR	ROME GA	227-096-239	SEATWAPIPCA		01133	30315	00041-009
AIR TOUCH CELLULAR	SPALDING GA	227-096-239	SEATWAPIPCA		01139		00041-009
AIR TOUCH CELLULAR	ATLANTA GA	227-096-239	SEATWAPIPCA		00041		00041-009
AIR TOUCH CELLULAR	ALBANY NY	227-194-255	ALBANYTIAXA		00063		00063-001
AIR TOUCH CELLULAR	DUBOIS PA	227-187-243	INDAPATIAXA		01623		01623-001
AIR TOUCH CELLULAR	INDIANA PA	227-187-243	INDAPATIAXA		01623		01623-001
AIR TOUCH CELLULAR	MCKEAN PA	227-187-243	INDAPATIAXA		01623	30609	01623-001
AIR TOUCH CELLULAR	MALONE NY	227-195-239	PLATNYTIAXA		01507		01507-001
ALBANY TEL CO	FARGO ND	227-096-241	FARGNDTINTA		00347		00347-001
ALBANY TEL CO	BAKERSFIELD CA	227-198-243	BAKECATIAXA		00183		00183-001
ALBANY TEL CO	MONTEREY CA	227-199-250	SCLACAHIAXA		00527		00031-006
AMC CELLULAR	NAPA VALLEJO CA	227-199-250	SCLACAHIAXA		00031	30015	00031-006
AMC CELLULAR	SAN FRANCISCO CA	227-199-250	SCLACAHIAXA		00031		00031-006
BAY AREA	SAN FRANCISCO CA	227-199-250	SCLACAHIAXA		00031		00031-006
BAY AREA	SAN JOSE CA	227-199-250	SCLACAHIAXA		00031		00031-006
BAY AREA	SANTA ROSA CA	227-199-250	SCLACAHIAXA		00031	30015	00031-006
BAY AREA	ALBUQUERQUE NM	001-122-030	PHNXAZ3701W		00079		00053-031
BAY AREA	BRIDGEPORT CT	001-122-032	WALLCTNE01W		00119	30119	00119-031
BELL ATLANTIC MOBILE	BRIDGEPORT CT	001-122-032	WALLCTNE01W		00119	30119	00119-031
BELL ATLANTIC MOBILE	CASA GRANDE AZ	001-122-030	PHNXAZ3701W		01031		00053-031
BELL ATLANTIC MOBILE	DANBURY CT	001-122-032	WALLCTNE01W		00119	30119	00119-031
BELL ATLANTIC MOBILE	EL PASO TX	001-122-030	PHNXAZ3701W		00097		00053-031
BELL ATLANTIC MOBILE	FRANKLIN CITY MA	001-122-032	WALLCTNE01W		01327		00119-031
BELL ATLANTIC MOBILE	GLOBE AZ	001-122-030	PHNXAZ3701W		01031	30739	00053-031
BELL ATLANTIC MOBILE	HARTFORD CT	001-122-032	WALLCTNE01W		00119	31019	00119-031
BELL ATLANTIC MOBILE	LAS CRUCES NM	001-122-030	PHNXAZ3701W		00097	30097	00053-031
BELL ATLANTIC MOBILE	NEW BEDFORD MA	001-122-032	WALLCTNE01W		00119	31029	00119-031
BELL ATLANTIC MOBILE	NEW HAVEN CT	001-122-032	WALLCTNE01W		00119	31069	00119-031
BELL ATLANTIC MOBILE	NEW LONDON CT	001-122-032	WALLCTNE01W		00119	31049	00119-031
BELL ATLANTIC MOBILE	NEWPORT RI	001-122-032	WALLCTNE01W		01635		00119-031
BELL ATLANTIC MOBILE	NORWALK CT	001-122-032	WALLCTNE01W		00119	30119	00119-031
BELL ATLANTIC MOBILE	OLD SAYBROOK CT	001-122-032	WALLCTNE01W		00119	31049	00119-031
BELL ATLANTIC MOBILE	PAYSON AZ	001-122-030	PHNXAZ3701W		01031	30741	00053-031
BELL ATLANTIC MOBILE	PHOENIX AZ	001-122-030	PHNXAZ3701W		00053		00053-031
BELL ATLANTIC MOBILE	PITTSFIELD MA	001-122-032	WALLCTNE01W		00119	31059	00119-031
BELL ATLANTIC MOBILE	PROVIDENCE RI	001-122-032	WALLCTNE01W		00119		00119-031
BELL ATLANTIC MOBILE	SIERRA VISTA AZ	001-122-030	PHNXAZ3701W		00053	31053	00053-031
BELL ATLANTIC MOBILE	SPRINGFIELD MA	001-122-032	WALLCTNE01W		00119	31039	00119-031
BELL ATLANTIC MOBILE	STAMFORD CT	001-122-032	WALLCTNE01W		00119	30119	00119-031
BELL ATLANTIC MOBILE	TUCSON AZ	001-122-030	PHNXAZ3701W		00053	30053	00053-031
BELL ATLANTIC MOBILE	WATERBURY CT	001-122-032	WALLCTNE01W		00119	31069	00119-031
BELL ATLANTIC MOBILE	WINDHAM CITY CT	001-122-032	WALLCTNE01W		01103		00119-031
BELL ATLANTIC MOBILE	HARALSON GA	227-096-239	SEATWAPIPCA		01137		00041-009
BELL ATLANTIC MOBILE	BAKER CITY OR	227-096-251	WALAWATIAXA		01787	30259	01787-001
BELL ATLANTIC MOBILE	CLARKSTON WA	227-096-251	WALAWATIAXA		01787	30705	01787-001
BELL ATLANTIC MOBILE	HERMISTON OR	227-096-251	WALAWATIAXA		01787	30259	01787-001
BELL ATLANTIC MOBILE	LA GRANDE OR	227-096-251	WALAWATIAXA		01787	30259	01787-001
BELL ATLANTIC MOBILE	LEWISTON ID	227-096-251	WALAWATIAXA		01787	30765	01787-001
BELL ATLANTIC MOBILE	MOSCOW ID	227-096-251	WALAWATIAXA		01787	30765	01787-001
BELL ATLANTIC MOBILE	PENDLETON OR	227-096-251	WALAWATIAXA		01787		01787-001
BELL ATLANTIC MOBILE	PULLMAN WA	227-096-251	WALAWATIAXA		01787	30705	01787-001



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SEAMLESS ROAMING NPA - NXX TABLE UPDATES

CO. NAME _____ SS7 PROVIDER _____ FAX # _____ PAGE _____ OF _____

Enter your Company's information in the spaces provided.

ACTION	MARKET NAME	SID / BID	NPA - NXX	LINE RANGE	POINT CODE	START DATE	END DATE	MSCID	SWITCH TYPE	CLLI CODE	TIME ZONE
						MM / DD / YY	MM / DD / YY		GENERIC SOFTWARE		

ADDITIONAL INSTRUCTIONS:

ACTION CODES

A = ADD - Requires an Effective Start Date

C = CHANGE - Requires an Effective End Date for the "From" change and effective Start Date for the "To" change

D = DELETE - Requires an Effective End Date

PREPARED BY: _____

CALL BACK # _____

DATE PREPARED _____ / _____ / _____

A-2

Sample Appendix A.2

CELLULAR CUSTOMER INFORMATION TABLE OF INSTRUCTIONS
for
SEAMLESS ROAMING NPA-NXX TABLE UPDATES

This form is to be completed and submitted to your Network Provider for each change that involves any information contained on this form. This information will be used by Network Providers to ensure each customer is properly connected throughout the cellular community. The first line on the form provides an example of how the form should be completed. Please complete a separate line for each block of information. If the information within a designated area changes or a break occurs within a block, start a new line. Use separate pages for additional information. When completed, forward a copy to your Network Provider as soon as possible.

- **COMPANY** - Provide the name of the company that will be connecting to the Network Provider.
- **SS7 PROVIDER** - Fill in the name of the network providing primary SS7 Services to the "Company".
- **FAX** - Provide your FAX number.
- **ACTION** - Use the codes provided (add, change or delete) at the bottom of the sheet to identify the activity that is affecting the circuits attached to the Network Provider. Each ACTION will require a separate line.
- **MARKET NAME** - Provide the applicable "Market Name" for the line. Each Market Name will require a separate line.
- **SID/BID** - Provide the "System and Billing Identifier". Each SID/BID will require a separate line.
- **NPA/NXX** - Provide the NPA and NXX associated with the activity. Breaks in NPA/NXX should be entered on separate lines.
- **LINE RANGE** - Provide the Line Range involved in the activity. Breaks in Line Range will require separate lines.
- **POINT CODE** - Provide the point code that will be affected by the activity. On new installations where a Point Code is not assigned, network providers can assign a code. Each Point Code will require a separate line.
- **DUE DATE (Start or End)** - Provide the date of the requested activity to be completed (mm/dd/yy).
- **MSCID** - Provide the "Mobile Switching Center Identification" (8 Digits) Each MSCID will require a separate line.
- **SWITCH (TYPE-GENERIC- REV)** - Provide the switch manufacturer and type of switch being used. Also provide the generic software installed and whether the switch is using IS-41 Rev A or B.
- **CLLI CODE** - Provide the "Common Language Location Identifier", this should contain eleven (11) characters. Each CLLI Code will require a separate line.
- **TIME ZONE** - Used for coordination purposes.

RETURN THIS FORM WHEN COMPLETED TO:
Network Provider



NETWORK COORDINATED EVENTS CALENDAR

NOTIFICATION DATE 1995	INFORMATION RECEIVED BY CARRIER	SWITCH TABLE/PROTOCOL CONVERTER UPDATE COMPLETED
JANUARY 6	JANUARY 13	JANUARY 20
JANUARY 13	JANUARY 20	JANUARY 27
JANUARY 20	JANUARY 27	FEBRUARY 3
JANUARY 27	FEBRUARY 3	FEBRUARY 10
FEBRUARY 3	FEBRUARY 10	FEBRUARY 17
FEBRUARY 10	FEBRUARY 17	FEBRUARY 24
FEBRUARY 17	FEBRUARY 24	MARCH 3
FEBRUARY 24	MARCH 3	MARCH 10
MARCH 3	MARCH 10	MARCH 17
MARCH 10	MARCH 17	MARCH 24
MARCH 17	MARCH 24	MARCH 31
MARCH 24	MARCH 31	APRIL 7
MARCH 31	APRIL 7	APRIL 14
APRIL 7	APRIL 14	APRIL 21
APRIL 14	APRIL 21	APRIL 28
APRIL 21	APRIL 28	MAY 5
APRIL 28	MAY 5	MAY 12
MAY 5	MAY 12	MAY 19
MAY 12	MAY 19	MAY 26
MAY 19	MAY 26	JUNE 2
MAY 26	JUNE 2	JUNE 9
JUNE 2	JUNE 9	JUNE 16
JUNE 9	JUNE 16	JUNE 23
JUNE 16	JUNE 23	JUNE 30
JUNE 23	JUNE 30	JULY 7
JUNE 30	JULY 7	JULY 14
JULY 7	JULY 14	JULY 21
JULY 14	JULY 21	JULY 28
JULY 21	JULY 28	AUGUST 4
JULY 28	AUGUST 4	AUGUST 11



Sample
(See current SRIG Supplemental)

Appendix A.3

NETWORK COORDINATED EVENTS CALENDAR
(Continued)

NOTIFICATION DATE 1995	INFORMATION RECEIVED BY CARRIER	SWITCH TABLE/PROTOCOL CONVERTER UPDATE COMPLETED
AUGUST 4	AUGUST 11	AUGUST 18
AUGUST 11	AUGUST 18	AUGUST 25
AUGUST 18	AUGUST 25	SEPTEMBER 1
AUGUST 25	SEPTEMBER 1	SEPTEMBER 8
SEPTEMBER 1	SEPTEMBER 8	SEPTEMBER 15
SEPTEMBER 8	SEPTEMBER 15	SEPTEMBER 22
SEPTEMBER 15	SEPTEMBER 22	SEPTEMBER 29
SEPTEMBER 22	SEPTEMBER 29	OCTOBER 6
SEPTEMBER 29	OCTOBER 6	OCTOBER 13
OCTOBER 6	OCTOBER 13	OCTOBER 20
OCTOBER 13	OCTOBER 20	OCTOBER 27
OCTOBER 20	OCTOBER 27	NOVEMBER 3
OCTOBER 27	NOVEMBER 3	NOVEMBER 10
NOVEMBER 3	NOVEMBER 10	NOVEMBER 17
NOVEMBER 10	NOVEMBER 17	NOVEMBER 24
NOVEMBER 17	NOVEMBER 24	DECEMBER 1
NOVEMBER 24	DECEMBER 1	DECEMBER 8
DECEMBER 1	DECEMBER 8	DECEMBER 15
DECEMBER 8	DECEMBER 15	DECEMBER 22
DECEMBER 15	DECEMBER 22	DECEMBER 29
DECEMBER 22	DECEMBER 29	JANUARY 5
DECEMBER 29	JANUARY 5	JANUARY 12

Notification Date: Date that carriers inform their SS7 Provider of additions, deletions or changes.
Information Received: SS7 Provider notifies other SS7 Providers of updates.
Switch/Converter Update: Date each switch and protocol converter must be updated with all changes, additions, and deletions.



Vertical text on the right margin, possibly a page number or reference code, appearing as a series of vertical lines and characters.

INLink ORDERING FORM

SS7 Communication Request

Originator: (To be filled out by individual making this request.) Ordering Date _____

Originating Carrier Name _____ Location _____

Customer Contact Name _____ Title _____

Address _____ City _____

State _____ Zip Code _____ Phone _____

FAX Number _____ Signature _____

Originating Location: (To be filled out by Originator.) Desired In Service Date _____

MSC Address _____

Switch Type _____ Switch Generic _____

CLLI Code _____ Point Code _____

SID/MSCID# _____ Site Name _____

Remote Location: (To be filled out by Originator.) Desired In Service Date _____

Destination Carrier Name _____

MSC Address _____

Switch Type _____ Switch Generic _____

CLLI Code _____ Point Code _____

SID/MSCID# _____ Site Name _____

Approving Signature _____ Phone _____

(To be signed by Remote INlink Carrier, NOT required for other Carriers.)

Completed Form to be returned to:



Telecommunications Services

FAX (813) 273-3225

Network Engineering

PO Box 2924 MC5A

Tampa, FL. 33601-2924



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**NACN
MARKET OPENING FORM**

Mr. John Mulhern
NACN, Inc.
5400 Carillon Point
Kirkland, Washington, 98033
FAX - 206-828-8436

Date:

Dear Mr. Mulhern:

This letter provides NACN the authorization to allow the exchange of IS-41 messages between our market(s) and markets on the CTIA Network.

The market(s) on the CTIA Network include:

<u>Company Name</u>	<u>Market Name</u>	<u>CTIA Point Code</u>
---------------------	--------------------	----------------------------

Our market(s) include:

<u>Company Name</u>	<u>Market Name</u>	<u>NACN Point Code</u>
---------------------	--------------------	----------------------------

The effective date for the implementation of this exchange is the next available date in accordance with the Coordinated Events Calendar. It is assumed that this will be the first Notification Date after the date of this request.

Please acknowledge this request within three (3) working days. Respond to my FAX at (NPA) NNX-XXXX.

Thank you for your earliest attention to this request.

Name
Title

FAX Copies to: Angela Flom at 206-828-8050.



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CELLULAR TELECOMMUNICATIONS INDUSTRY ASSOCIATION

Supplemental

BUILDING THE WIRELESS FUTURE™



C T I A



**Seamless Roaming Implementation Guide
(SRIG)
Supplemental**

January 1995

CTIA

NACN

GTE

ITT

Events Calendar



Seamless Roaming Implementation Guide (SRIG) Supplemental

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